

MARINE PUMPS CATALOGUE







MAS – DAF Makina Sanayi A.Ş. has been manufacturer of a full range of residential and commercial pumps since 1977. Since our founding we have dedicated our activities towards the manufacture of products that provide efficient utilizations of water and energy,as well as focusing our efforts on searching for ways to conserve the resources needed to sustain life.

Now exporting to more than 50 countries across the face of the globe,we as the MAS Group have continued to hold fast to our principle of continual self-development. Determined to increase our competitive strengths on domestic and foreign markets, in 2006 the company put its Düzce factory into full capacity service. The factory has been built on 40,000 m² of land with production facilities covering an area of 20,000 m². Through the years, our company has been propelled into a leadership position in the pump sector thanks to the production techniques the Group has developed, our machinery, R & D unit, professional staff, and our continual provision of top quality and modern services.

Our basic philosophy is to ensure that all of our actions are conducted in strict conformance with legal and business ethics, that our customer are informed and their rights always protected, that we provide the best possible quality of services and technology, and that we establish a system of human resources that meets the satisfaction of both our own personnel and our customers.

applications

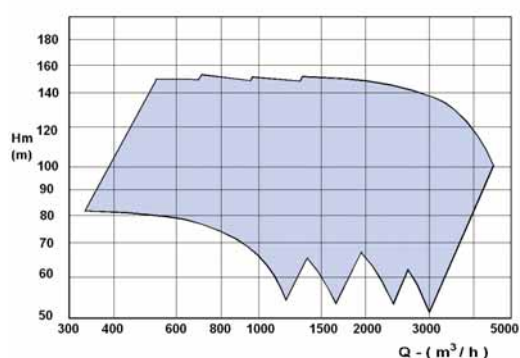
	CENTRIFUGAL PUMPS	GEAR&SCREW PUMPS
Ballast Pumps	✓	
Fire&Emergency Fire Pumps	✓	
General Service Pumps	✓	
Bilge Pumps	✓	
Sea Water Pumps	✓	
Aux. Central Cooling Pumps	✓	
Sewage Pumps	✓	✓
Booster Pumps	✓	
Boiler Pumps	✓	
Tank Washing Pumps	✓	
LT Stand-By Pumps	✓	
HT Stand-By Pumps	✓	
Fresh Water Pumps	✓	
Sprinkler Pumps	✓	
Drencher Pumps	✓	
Fire-Fighting (Fi-Fi) System Pumps	✓	
Air-Condition Pumps	✓	
Black Water Pumps	✓	
Heavy Fuel Oil Transfer Pumps		✓
Marine Diesel Oil Transfer Pumps		✓
Diesel Oil Transfer Pumps		✓
Lubrication Oil Pumps		✓
Thermal Oil Circulation & Transfer Pumps		✓
Cargo Pumps		✓
Sludge Pumps		✓
Oily Water Pumps		✓

ENM Fi-Fi system pumps

High Capacity End Suction Centrifugal Pumps

General Specifications

Flow Rate	: 400 ... 4000 m ³ /h
Head	: 60 ... 150 m
Operation Pressure	: 16 Bar
Operation Temperature	: -20 ... 110°a1C
Motor Speed Range	: 1000 - 1800 rpm
Suction Flange	: DN 300 - DN 500
Discharge Flange	: DN 250 - DN 400



Contact our company for customized options

Components	Material Code				
	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Pump Casing	0	0		0	0
Impeller	0	0		0	0
Wear Ring		0		0	0
Shaft			0	0	0

o Optional



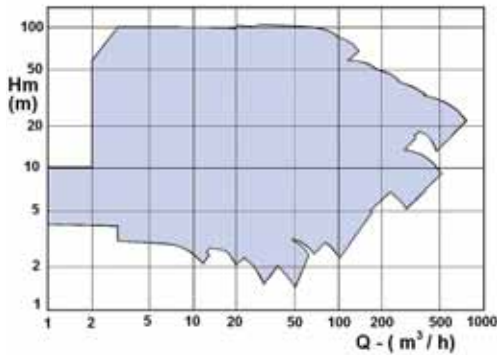
INM & INL series

In-Line Centrifugal Pumps



General Specifications

Flow Rate	: 2 ... 700 m ³ /h
Head	: 2 ... 100 m
Operation Pressure	: 10 Bar
Motor Speed Range	: 900 - 3600 rpm
Suction Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)
Discharge Flange	: DN 40 ... DN 200 (PN16) (DIN 2535)



Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Casing	-	o	o		o	o
Adapter	-	o	o		o	o
Impeller	-	o	o		o	o
Wear Ring	-	o	o		o	o
Shaft				-	o	o
Motor Adapter	-	o	o		o	o

- Standart Manufacturing
o Optional

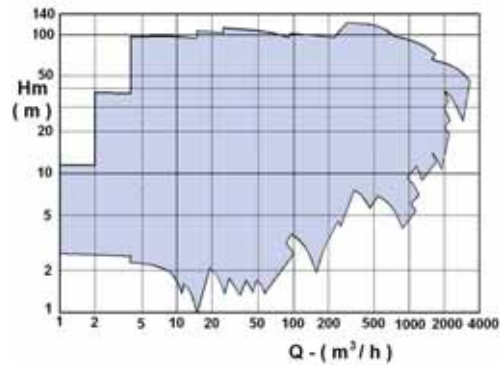
NM series

End Suction Centrifugal Pumps



General Specifications

Flow Rate	: 5 ... 3500 m ³ /h
Head	: 4 ... 105 m
Operation Pressure	: 10 Bar
Operation Temperature	: -20 ... 110°C
Motor Speed Range	: 1000 ... 3600 rpm
Suction Flange	: DN 50 ... DN 400
Discharge Flange	: DN 32 ... DN 350



Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Pump Casing	-	o	o		o	o
Back Cover	-	o	o		o	o
Impeller	-	o	o		o	o
Gland	o	-	o		o	o
Wearing Ring*	o	o	-		o	o
Shaft				-	o	o
Shaft Sleeve				-	o	o
Bearing Housing	-					
Bearing Cover	-					

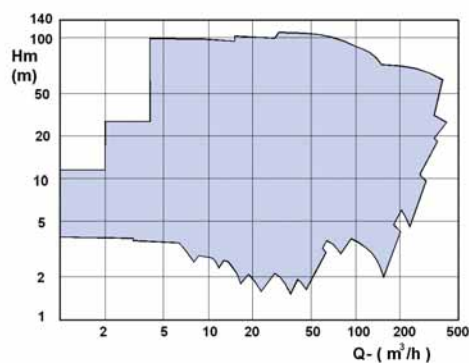
NMM series

Mono-block Centrifugal Pumps



General Specifications

Flow Rate	: 5 ... 450 m ³ /h
Head	: 4 ... 100 m
Operation Pressure	: 10 Bar
Operation Temperature	: -10...110°C
Motor Speed Range	: 1000 ... 3600 rpm
Suction flange	: DN 50 ... DN 200 (PN 16) (DIN 2535)
Discharge Flange	: DN 32 ... DN 150 (PN 16) (DIN 2535)



Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Volute Casing	-	o	o		o	o
Impeller	-	o	o		o	o
Wear Ring	o	-	o		o	o
Shaft				-	o	o
Motor Adapter	-	o	o		o	o
Adapter (Motor)	-	o				

- Standart Manufacturing

o Optional

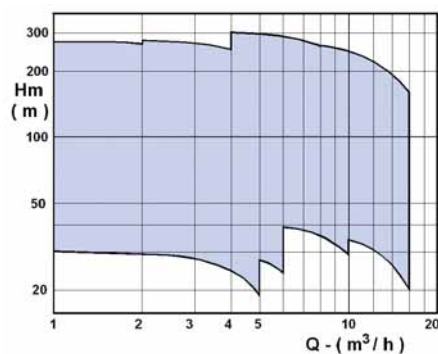
KMU & KMU-V series

High Pressure Multistage Pumps



General Specifications

Flow Rate	: 1..16 m ³ /h
Head	: 10 ... 280 m
Operation Pressure	: 25 Bar
Operation Temperature	: -10 ... 110°C
Stage Number	: 3 ... 18
Motor Speed Range	: 1400 ... 3600 rpm
Suction Flange	: DN 25 ... DN 50 (PN 40)
Discharge Flange	: DN 25 ... DN 50 (PN 40)



Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Suction & Discharge Casing	-	o	o		o	o
Stage Casing	-	o	o		o	o
Impeller	o	o	-		o	o
Last Stage Diffuser	-	o	o		o	o
Shaft				-	o	o
Shaft Sleeve				-	o	o
Mech. Seal Cover	-	o	o		o	o

OMK & OMK - V series

High Pressure Centrifugal Pumps

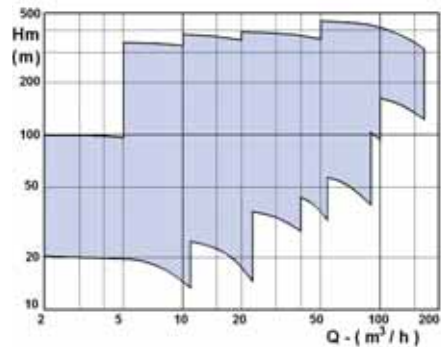
General Specifications

Flow Rate	: 5 ... 220 m ³ /h
Head	: 30 ... 400 m
Operation Pressure	: 40 Bar
Operation Temperature	: -10 ... 140°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3600 rpm
Suction Flange	: DN 50 ... DN 125 (PN 40)
Discharge Flange	: DN 32 ... DN 80 (PN 40)



Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Suction & Discharge Casing	-	o	o		o	o
Stage Casing With Diffuser	-	o	o		o	o
Impeller	-	o	o		o	o
Last Stage Diffuser	-	o	o		o	o
Gland		-	o			
Shaft				-	o	o
Shaft Sleeve				-	o	o
Mech. Seal Cover	-	o	o		o	o
Bearing Housing	-	o				
Bearing Cover	-	o		o	o	o

- Standart Manufacturing
- o Optional



Contact our company for customized options

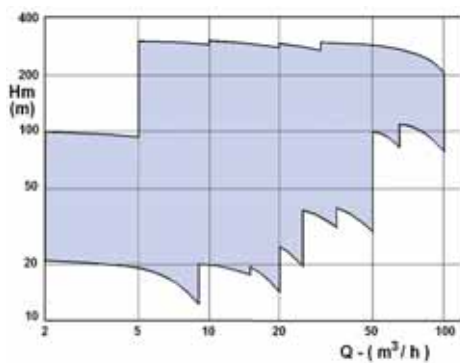


KMB & KMB-V series

High Pressure Centrifugal Pumps

General Specifications

Flow Rate	: 5 ... 100 m ³ /h
Head	: 30 ... 300 m
Operation Pressure	: 40 Bar
Operation Temperature	: - 10 ... 110°C
Stage Number	: 2 ... 14
Motor Speed Range	: 1450 ... 3600 rpm
Suction Flange	: DN 40 ... DN 80 (PN 40)
Discharge Flange	: DN 32 ... DN 65 (PN 40)



Contact our company for customized options



Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Suction & Discharge Casing	-	o	o		o	o
Stage Casing	-	o	o		o	o
Impeller	-	o	o		o	o
Last Stage Diffuser	-	o	o		o	o
Sliding Bearing Cover	-	o	o			
Shaft				-	o	o
Shaft Sleeve				-	o	o
Mech. Seal Cover	-	o	o		o	o

- Standart Manufacturing
o Optional

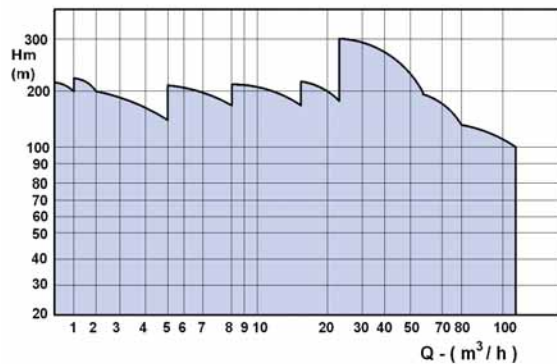
DSV series

Vertical Stainless Steel Pumps



General Specifications

Flow Rate : 0 - 110 m³/h
 Head : 20 - 300 m
 Operation Pressure : 17 Bar
 Motor Speed Range : 2900 - 3600 rpm
 Suction Flange : DN 25 - DN 100
 Discharge Flange : DN 25 - DN 100



Contact our company for customized options

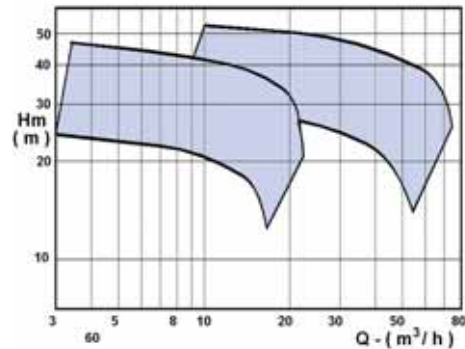
PSP series

Vertical Sewage Pumps



General Specifications

Flow Rate : 3 ... 70 m³/h
 Head : 15 - 50 m
 Operation Pressure : 6 Bar
 Motor Speed Range : 1000 ... 3600 rpm
 Discharge Flange : DN 32 - DN 80



Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Casing	-	o	o	-	o	o
Impeller	-	o	o	-	o	o
Shaft	-	-	-	-	o	o
Stuffing Box	-	o	o	-	o	o
Gland	-	o	o	-	o	o
Bearing Cover	-	-	-	-	-	-

- Standart Manufacturing

o Optional

CSV series

Double Suction Vertical In-Line Pumps

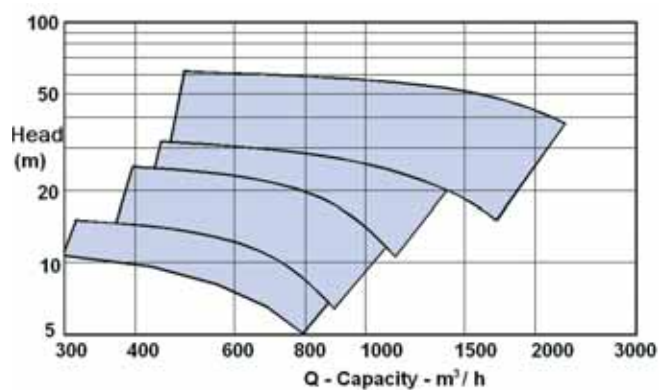
General Specifications

Capacity	: 400 – 2200 m ³ /h
Total Head	: 10 – 60 m
Pressure range	: 10 Bar
Max.Liquid temp	: 80 °C
Motor Speed	: 730 – 1800 rpm
Suction Connection	: DN 300-400 PN 10
Discharge Connection	: DN 250-350 PN 10



Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Casing	-	o	o		o	o
Impeller	-	o	o		o	o
Shaft				-	o	o
Casing Wear Ring			-	o	o	o
Stuffing Box	-	o	o		o	o
Gland		-	o		o	o
Bearing Housing	-					
Bearing Cover	-					

- Standart Manufacturing
- o Optional



Contact our company for customized options



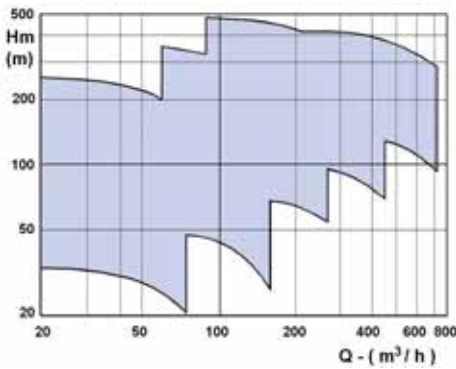
KME & KME-V series

High Pressure Centrifugal Pumps



General Specifications

Flow Rate	: 20 - 700 m ³ /h
Head	: 30 - 500 m
Operation Pressure	: 40 Bar
Stage Number	: 2 - 15
Motor Speed Range	: 1450 -1750 rpm
	KME 80 -3600 rpm
Suction Flange	: DN 100...DN 250 (PN 16)
Discharge Flange	: DN 80.....DN 200 (PN 40)

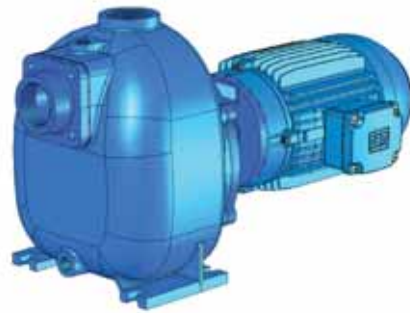


Contact our company for customized options

Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Suction & Discharge	-	o	o		o	o
Casing						
Stage Casing	-	o	o		o	o
Impeller	-	o	o		o	o
Diffuser	-	o	o		o	o
Gland		o	-		o	o
Pump Shaft				-	o	o
Shaft Sleeve				-	o	o
Stuffing Box	-	o	o		o	o
Bearing Housing	-	o				
Bearing Cover	-	o				

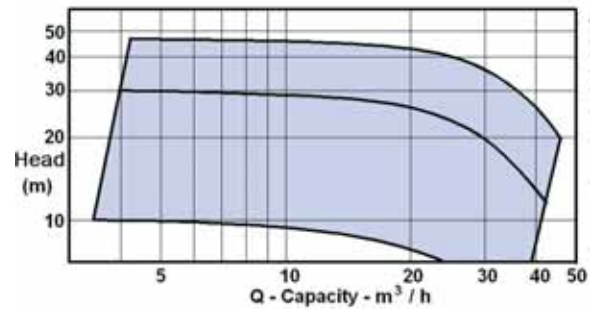
UKM-S series

Open Impeller Self Priming Pumps



General Specifications

Capacity	: 5 – 45 m ³ /h
Total Head	: 10 – 40 mWC
Max. Suction Lift	: 7 mWC
Max. Liquid temp	: 50 °C
Motor Speed	: 2800 – 3600 rpm
Pipe Connections	: 2" suction-Discharge



Contact our company for customized options

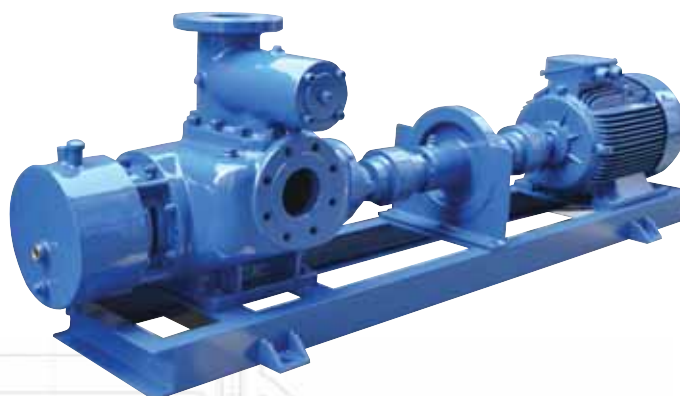
Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 420	AISI 304	AISI 316
Casing	-	o	o		o	o
Impeller	-	o	o		o	o
Shaft				-	o	o

- Standart Manufacturing

o Optional

SCREW PUMPS

Twin-screw pump can transfer various fluid medium without solid, or high viscosity paste medium. Twin-screw pump has wide availability and reliability, no matter lubricating or not lubricating and no matter corrosion or medium with gas and liquids.



Horizontal mounting with bulk head application.

General Specifications

Flow Rate : 0-2500 m³/h
 Head : 0-600 m
 Operation Pressure : 0-60 bar
 Viscosity : 0,5-100.00 mm²/s
 Motor Speed Range : 1000-3600 rpm
 Operation Temperatures : -30-300 °C

Contact our company for customized options

Components	Material Code			
	GG 25	20CrMnTi	AISI 304	AISI 316
Pump Casing	o			o
Rotor			o	o
Shaft	o			

- Standart Manufacturing
- o Optional



Vertical mounting

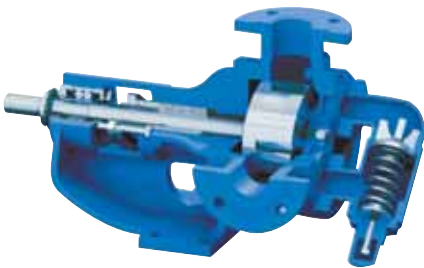


GEAR PUMPS



General Specifications

Flow Rate	: 1 m ³ /h - 250 m ³ /h
Head	: 30 .. 90 m
Operation Pressure	: 0 bar - 40 bar
Operation Temperature	: -20 ... 140 °C
Motor Speed Range	: 1000 ... 3600 rpm
Viscosity	: 38 SSU-2.000.000 SSU

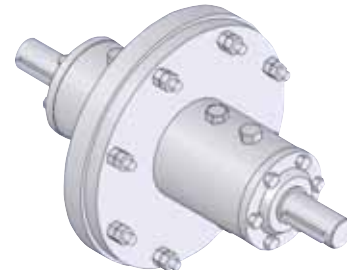


Components	Material Code					
	GG 25	GGG 40	Bronze	AISI 304	AISI 316	Silicon Carbide
Pump body	o	o		o	o	
Gear	o	o		o	o	
Bearings			o			o

- o Standart Manufacturing
- o Optional

Contact our company for customized options

BULK HEAD PENETRATION



General Specifications

The shaft transmissions can be mounted horizontally and vertically at the bulkhead or the deck.

They are independent of the direction of rotation and gastight

The gas seal is obtained by the mounting

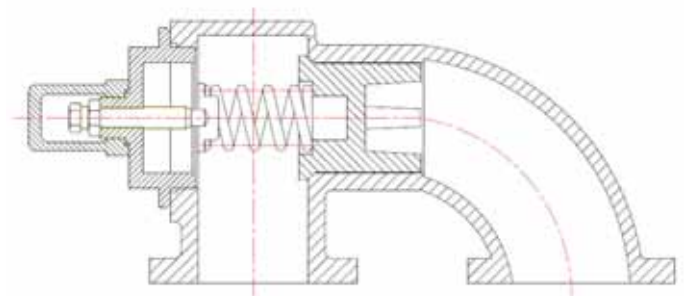
- of a gasket between bulkhead or the deck and the clamping flange of the shaft transmission and also

- of a seal oil system with an integrated seal oil container.

The torque transmission from the motor by the shaft transmission on the pump occurs through the installation of rotating flexible couplings.

There are three types of which is MPG 40, MPG 55, and MPG 80. The bulk head penetration is used for ship to connection of pumps and motors.

Gear pump by-Pass Operation



By-Pass means the protection of the motor against the excessive pressure due to any blockage that might occur in the pipeline for any reason. This pump with positive sweeping may be overloaded because of the closing in the pressure line during operation. As a result, some parts of the pump might break. By-pass can be installed on the pressure line as well as directly on the pump. The assembly form does not change the operation principle.

Contact our company for customized options

MAS-VSP Self Priming Unit with vacuum pump

MAS-VSP Automatic self-priming unit with vacuum pump, designed for the priming of centrifugal pumps where dry running is not admissible. It guarantees a reliable priming. If the discharge pressure fall during operation, the aspirator starts up once more for re-evacuation.

TECHNICAL DATA :

- Operating Voltage 24 V
- Protection class IP 54
- Motor Power 1.5 KW
- Switching capacity Max 100 VA
- Nominal pressure PN 10
- Suction capacity 300 NI / min
- Max. Suction head 6 m.
- Service Water Tank 4 lt

APPLICATION : MAS –VSP Priming Unit is suitable for thin, clean, non- aggressive liquids free from large solid particles and fibres. It can be used for the systems where dry running is not permissible also for gas containing liquids.



Contact our company for customized options

MAS-ASP Self Priming Unit with air ejector

MAS-ASP automatic aspirator designed for the priming of centrifugal pumps where dry running is not admissible. It guarantees a reliable priming. If the discharge pressure fall during operation, the aspirator starts up once more for re-evacuation.

TECHNICAL DATA :

- Operating Voltage 24V
- Protection class IP 65
- Power input 20 VA
- Switching capacity Max 100 VA
- Nominal pressure PN 10
- Ejector Size 3,5 mm
- Suction capacity 300 NI / min
- Compressed air required (For 6 bar air pressure) 100 l / min
- Pressure range 6 – 9 Bar
- Max. Suction head 6 m.

APPLICATION : MAS –ASP aspiration system is suitable for thin , clean, non- aggressive liquids free from large solid particles and fibres. It can be used for the systems where dry running is not permissible also for gas containing liquids.



Contact our company for customized options



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